| Inde | ex of Cl | aims |
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10/674,361

Examiner

Tuan T. Nguyen

Applicant(s)/Patent under Reexamination

HONG ET AL.

Art Unit

2824

| <b>√</b> | Rejected |
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|          | Allowed  |

| - | (Through numeral)<br>Cancelled |
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|          |          |                   |          |                 |               |          |          |          |            |            |            |                         |          |          |              |          |           |          |          |          |          | •        |          |            |                     |          |          |          |          |          |           |          |        |
|----------|----------|-------------------|----------|-----------------|---------------|----------|----------|----------|------------|------------|------------|-------------------------|----------|----------|--------------|----------|-----------|----------|----------|----------|----------|----------|----------|------------|---------------------|----------|----------|----------|----------|----------|-----------|----------|--------|
| Cla      | aim      | Date              |          |                 |               |          |          |          |            | Claim Date |            |                         |          |          |              |          |           |          |          | CI       | aim      | Date     |          |            |                     |          |          |          |          |          |           |          |        |
| Final    | Original | 620               |          |                 |               |          |          |          |            |            | ī          | 5                       | Original |          |              |          |           |          |          |          |          |          | Finat    | Original   |                     |          |          |          |          |          |           |          |        |
|          | 1        | بد                | -        |                 |               |          |          |          |            | ╗          |            |                         | 51       |          |              |          |           |          |          | $\neg$   |          |          |          | 101        |                     | T        |          |          |          |          | $\neg$    |          |        |
|          | 2        | 1                 |          |                 |               |          |          |          |            |            |            | 7                       | 52       |          |              |          |           |          |          |          |          |          |          | 102        |                     | $\Box$   |          |          |          |          |           | П        |        |
|          | 3        | $\prod$           |          |                 |               |          |          |          |            |            |            |                         | 53       |          |              |          |           |          |          |          |          |          |          | 103        |                     |          |          |          |          |          |           |          |        |
| <u></u>  | 4        | Ш                 | L        |                 |               |          |          |          |            | _          | ┕          |                         | _54      |          |              |          | _         |          | _        |          |          | _        |          | 104        |                     |          | $\perp$  |          |          |          |           |          |        |
|          | 5        | Ц                 |          | Щ               |               |          |          |          | _          |            |            | _                       | 55       | _        |              |          |           | _        |          |          | _        | _        |          | 105        | $\sqcup$            | 4        | _        | _        |          |          |           | $\dashv$ |        |
|          | 6        | Ц.                | <u> </u> |                 |               |          |          | $\Box$   | _          | _          | ·  _       | -4                      | 56       |          |              |          | $\dashv$  | _        | _        | 4        | _        | _        | <u> </u> | 106        | $\sqcup \downarrow$ | _        | 4        | _        |          |          | _         | $\dashv$ |        |
|          | 8        | ₩                 |          | -               |               | -        |          |          |            | _          | $\vdash$   | $\dashv$                | 57       | ┢        |              |          | -         |          | $\dashv$ | $\dashv$ | $\dashv$ |          | -        | 107        | $\vdash$            | +        | -        |          |          |          |           | $\dashv$ | _      |
| -        | 9        | ₽                 |          | Н               |               |          |          | -        |            | +          | $\vdash$   | $\dashv$                | 58<br>59 | -        |              |          |           |          |          | -        | -        |          |          | 108        | $\vdash$            | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$  | $\dashv$ |        |
|          | 100      | ╁                 |          |                 |               | -        |          |          | -+         | -          | $\vdash$   | $\dashv$                | 60       | -        |              |          |           |          |          | +        | $\dashv$ | $\dashv$ | <u> </u> | 110        | $\vdash$            | +        | $\dashv$ | $\dashv$ |          |          | $\dashv$  | -        |        |
|          | 11       | H                 |          | Н               |               |          |          |          | $\dashv$   | _          | $\vdash$   | $\dashv$                | 61       | -        |              |          |           | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\dashv$ | -        | 111        | $\vdash$            | $\dashv$ | -        | ┪        | $\dashv$ | $\vdash$ | $\dashv$  | $\dashv$ | _      |
|          | 12       | $\dagger \dagger$ | Н        | Н               | Н             | Н        |          |          | $\dashv$   | $\exists$  | $\vdash$   | $\dashv$                | 62       | T        |              |          | $\dashv$  | _        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | <b>—</b> | 112        | $\vdash$            | $\dashv$ | $\dashv$ |          | $\dashv$ | $\vdash$ | $\dashv$  | $\dashv$ | -      |
|          | 13       | 1                 | T        |                 | П             | Н        |          |          | 寸          |            | 一          | $\dashv$                | 63       |          | П            | $\Box$   | $\exists$ |          | $\dashv$ | _        | _        | $\dashv$ |          | 113        | $\vdash$            | $\top$   | $\dashv$ | $\neg$   |          |          | $\neg$    | $\neg$   | _      |
|          | 14       | П                 |          |                 |               |          |          |          |            | 1          |            |                         | 64       |          |              |          |           |          |          |          |          |          |          | 114        |                     |          |          |          |          |          | $\exists$ | $\Box$   |        |
|          | 15       |                   |          |                 |               |          |          |          |            |            |            |                         | 65       |          |              |          |           |          |          |          |          |          |          | 115        |                     |          |          |          |          |          |           |          |        |
|          | 16       | Ш                 | L        |                 |               |          |          |          |            | _          | L          | _                       | 66       | <u></u>  |              |          |           | ļ        |          | _        |          |          |          | 116        |                     | $\perp$  | $\Box$   |          |          |          | $\Box$    |          |        |
|          | 17       | Ш                 |          |                 |               |          |          |          |            |            | . L        | _                       | 67       |          |              |          |           | _        |          |          | _        |          |          | 117        | Ш                   | $\perp$  | $\dashv$ | _        | _        |          | _         | _        |        |
|          | 18       | Ţ                 | _        | Ш               | Ш             |          |          |          | _          | _ ;        | ` <u> </u> | 4                       | 68       | _        |              |          | _         | 4        |          | 4        | 4        | _ .      | <u> </u> | 118        |                     | _        | 4        | $\dashv$ |          |          | _         | $\dashv$ |        |
|          |          | ÷                 | <u> </u> | Щ               | -             |          |          |          | 4          | _          | -          | 4                       | 69       |          |              |          |           |          |          | 4        | $\dashv$ | _        | <u> </u> | 119        | $\vdash$            | 4        | _        |          |          |          | 4         | _        |        |
|          | 20       | ⊢                 | <u> </u> | $\vdash$        | Ш             |          | Н        | $\vdash$ | _          | 4          | -          | -                       | 70       |          |              | $\Box$   | _         |          |          | $\dashv$ | $\dashv$ | _        | -        | 120        | $\vdash \vdash$     | -+       | 4        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |        |
| <u> </u> | 21       | <del> </del> —    | -        | Н               | $\vdash$      |          | -        | $\vdash$ |            | -          | -          | $\dashv$                | 71<br>72 | -        |              |          | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | -        | 121<br>122 | ⊢⊹                  | -+       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |           | -        | _      |
|          | 23       | $\vdash$          | ⊢        | Н               | -             | Н        | $\vdash$ | $\vdash$ | $\dashv$   | $\dashv$   | $\vdash$   | $\dashv$                | 73       | -        | -            | -        | $\dashv$  | $\dashv$ |          |          | $\dashv$ |          | $\vdash$ | 123        | ┝╼┼                 | ╅        | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$  | $\dashv$ |        |
|          | 24       | $\vdash$          | $\vdash$ | Н               |               | -        |          | $\vdash$ | $\dashv$   | $\dashv$   | $\cdot$    | $\dashv$                | 74       | ⊢        | <del> </del> | $\dashv$ | $\dashv$  | $\dashv$ |          |          | -+       |          | -        | 123        | $\vdash \vdash$     | +        | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$  | $\dashv$ |        |
|          | 25       |                   |          | H               |               |          |          |          | <b>-</b> † | -          |            | $\dashv$                | 75       | $\vdash$ | -            |          | -         | 一        | 一        | -+       | -+       |          |          | 125        |                     | $\dashv$ | $\dashv$ | -        | $\neg$   |          | $\dashv$  | $\dashv$ |        |
|          | 26       |                   |          | Н               |               |          |          |          | _          | ٦          |            | _                       | 76       |          |              |          |           | Ħ        |          | 7        | _        | _        |          | 126        |                     | $\dashv$ | $\dashv$ | $\neg$   |          |          | $\dashv$  | _        |        |
|          | 27       | 1                 |          |                 |               |          |          | T        | 1          | ┪          |            | T                       | 77       |          |              |          |           | T        |          | T        | $\dashv$ | ┪        |          | 127        |                     | T        | 7        |          |          |          | 寸         | $\dashv$ | _      |
|          | 28       |                   |          |                 |               |          |          |          |            | 7          |            | 丁                       | 78       |          |              |          |           |          |          |          | $\dashv$ |          |          | 128        |                     | 1        |          | $\neg$   |          |          | $\neg$    | $\neg$   | $\neg$ |
|          | 29       |                   |          |                 |               |          |          |          |            |            |            |                         | 79       |          |              |          |           |          |          |          |          |          |          | 129        |                     |          |          |          |          |          |           |          |        |
|          | 30       |                   |          |                 |               |          |          |          |            |            |            |                         | 80       |          |              |          |           |          |          |          |          |          |          | 130        |                     | $\perp$  | $\Box$   |          |          |          | $\Box$    | $\Box$   |        |
|          | 31       | <u> </u>          | _        | _               | Ш             |          |          | $\dashv$ | _          | 4          | ·          | _                       | 81       | <u> </u> |              |          |           |          |          | 4        | _        | _        |          | 131        | $\sqcup$            | _        | _        | _        |          |          | _         | _        |        |
| <u> </u> | 32       | ļ                 | _        | Ш               |               |          | _        | $\dashv$ | -          | 4          | $\vdash$   | $\dashv$                | 82       | <u> </u> |              | _        |           | _        |          | 4        | $\dashv$ | _        | -        | 132        | $\sqcup$            |          | 4        | 4        | _        |          | _         | _        |        |
| <u> </u> | 33       | -                 | ⊢        | $\vdash$        | $\vdash \mid$ | Н        | $\dashv$ | $\dashv$ | +          | -          | <u> </u>   | $\dashv$                | 83<br>84 | <b> </b> |              |          |           |          | -        | $\dashv$ | +        | $\dashv$ |          | 133        | $\vdash \vdash$     |          | 4        | 4        | $\dashv$ | $\dashv$ | $\dashv$  |          |        |
| $\vdash$ | 35       |                   | -        |                 |               | $\vdash$ | $\vdash$ | $\vdash$ | +          | $\dashv$   | ·          | $\dashv$                | 85       | $\vdash$ | $\vdash$     |          | $\dashv$  | -        | +        | $\dashv$ | +        | $\dashv$ |          | 134<br>135 | $\vdash \vdash$     | +        | +        | ᅱ        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | _      |
| <u> </u> | 36       | -                 |          | $\vdash$        | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$ | +          | $\dashv$   | -          | +                       | 86       |          |              | $\dashv$ | $\dashv$  |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | <b></b>  | 136        | $\vdash$            | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$  | $\dashv$ |        |
| $\vdash$ | 37       | H                 |          | Н               | $\vdash$      | $\dashv$ | $\dashv$ | $\dashv$ | 十          | ۲.         | .  -       | $\dashv$                | 87       |          |              | $\dashv$ | $\dashv$  | 一        | $\dashv$ | $\dashv$ | $\dashv$ |          |          | 137        | $\vdash$            | $\dashv$ | $\dashv$ | ┪        | $\dashv$ | -        | $\dashv$  | $\dashv$ |        |
|          | 38       |                   |          | Н               |               | $\Box$   |          | $\dashv$ | $\dashv$   | $\dashv$   |            | 寸                       | 88       |          | Н            | $\dashv$ | ᅥ         | $\dashv$ | $\neg$   | $\neg$   | 十        | $\dashv$ |          | 138        | $\vdash$            | 十        | 7        | _        |          | $\dashv$ | $\dashv$  | $\neg$   | _      |
|          | 39       |                   |          |                 |               |          |          |          |            | ╛          |            |                         | 89       |          |              |          |           |          | _        |          | 丁        | 7        |          | 139        | $\Box$              | $\neg$   | 7        |          |          |          | $\exists$ | $\neg$   |        |
|          | 40       |                   |          |                 |               |          |          |          |            |            |            |                         | 90       |          |              |          |           | ╛        |          |          | 丁        |          |          | 140        |                     | 丁        |          |          |          |          |           |          |        |
|          | 41       |                   |          |                 |               |          |          |          | $\Box$     | _].        |            |                         | 91       |          |              |          |           |          |          |          | I        |          |          | 141        |                     |          |          |          |          |          |           |          | _      |
|          | 42       |                   |          |                 |               |          |          | Ц        |            | _]         |            | $oldsymbol{\mathbb{I}}$ | 92       |          |              |          |           |          | I        | $\Box$   | $\bot$   | _] :     |          | 142        | $\Box$              | $\perp$  | I        |          |          |          | $\Box$    |          |        |
|          | 43       | <u> </u>          | Щ        | Щ               |               |          |          |          | _          | $\dashv$   | <u> </u>   | 4                       | 93       | <u> </u> | Щ            |          |           |          |          | _        | $\perp$  | _        |          | 143        | $\sqcup$            | _        | 4        | _        |          | _        |           | _[       |        |
| <u> </u> | 44       | <u> </u>          | H        | $\vdash \dashv$ |               | _        | _        | _        | $\dashv$   | 4          | - -        | 4                       | 94       | $\vdash$ | Щ            | _        | 4         | -        | _        | $\dashv$ | 4        | 4        |          | 144        | $\sqcup \downarrow$ | _        | 4        | _        |          | _        | _         | $\dashv$ | _      |
| <u> </u> | 45<br>46 | <u> </u>          | $\vdash$ | $\vdash$        |               |          |          | $\dashv$ | +          | $\dashv$   | $\vdash$   | $\dashv$                | 95       | H        | $\vdash$     | -        | $\dashv$  | -        | 4        | +        | +        | _        | -        | 145        | $\vdash \vdash$     | +        | 4        |          | _        |          | $\dashv$  | -        |        |
| <b>—</b> | 46       | -                 | Н        | $\vdash$        | _             | -        |          | $\dashv$ | -+         | 4          | $\vdash$   | $\dashv$                | 96<br>97 | Н        | Н            |          | $\dashv$  |          | -        | +        | +        | $\dashv$ |          | 146<br>147 | $\vdash$            | +        | $\dashv$ | -        |          |          | $\dashv$  | $\dashv$ | _      |
|          | 47       | -                 | $\vdash$ | $\dashv$        | -             |          | _        | $\dashv$ | $\dashv$   | $\dashv$   |            | +                       | 98       | $\vdash$ | $\vdash$     |          | $\dashv$  | -        |          | $\dashv$ | +        | -        |          | 147        | $\vdash \vdash$     | +        | $\dashv$ | $\dashv$ | _        |          | $\dashv$  | $\dashv$ |        |
| <b>—</b> | 49       | <del> </del>      |          | $\vdash$        | -             | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$   | 1          | +                       | 99       | H        | $\vdash$     | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\dashv$ | -        | 149        | $\vdash$            |          | +        | -        | -        | $\dashv$ | $\dashv$  | $\dashv$ | -      |
|          | 50       | $\vdash$          | $\vdash$ | $\vdash$        |               | $\dashv$ |          | $\dashv$ | $\dashv$   | $\dashv$   | $\vdash$   | +                       | 100      | Н        |              | $\neg$   | $\dashv$  | -        | -        | 十        | +        | $\dashv$ | -        | 150        | $\vdash$            | $\dashv$ | +        | $\dashv$ | -        | $\dashv$ | $\dashv$  | $\dashv$ | -      |
|          |          | Ь-                | ۳        |                 |               |          |          |          |            | _          | _          |                         | . 50     |          | لـــــا      |          |           |          | _        |          | _        |          |          |            |                     |          |          |          |          |          |           |          |        |

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